

Multi-ID Core Cutter

UNI 75-2000

for burr-free cutting of cardboard cores
of different diameters on the same cutting mandrel.

The mandrel fits the whole range of diameters.
Tool change is not necessary !

➤ Working method of machine:

The tube is fed manually onto the cutting mandrel.

The cutting mandrel's diameter is smaller than the inner diameter of the core and therefore suitable for the whole range of core IDs.

The cutting length is entered at a terminal, then the machine is started by a button.

First a trim cut is made, next the core is divided into the corresponding cutting length programmed.

A pusher ejects the separate pieces off the mandrel.

The machine is equipped with:

- Touch Panel
for programming the required cutting length and amount of pieces.
- Auto-Scanning of Parent Tube.
Automatically the parent length of the tube is measured inside the machine.
Therefore even short parent tubes are to be cut without set-up.
- Tube pick-up feature
for ergonomic short-tube-feeding.
- Positionable Knife-Holder, incl. circular knife.
- Driven Knife with speedcontrol
- Knife Penetration Speed adjustable from exterior.
- Positionable Servo Axis for cutting unit
- Discharging unit for cut sections.
- Jet - Lubrication of knife
for polished cutting surface and cooling.
- Cutting mandrel with OD 145mm
with easy to change nylon-bushes.
- Safety Devices according CE - conformity

Technical Data:

* depending upon quality and wall of core

Core Diameter		
ID min	appr.	150 mm
special design	appr.	76 - 100 mm
OD max	appr.	750 mm
Wall thickness with driven knife	appr.	3 - 30 mm
Parent tube length	appr.	500 - 2090 mm
Cutting length	appr.	5 – 2050 mm
Cutting accuracy *		
up to 10 mm wall	appr.	+/- 0,2 mm
more than 10 mm wall	appr.	+/- 0,3 mm
Output		
(dependent upon quality and wall of core)	appr.	20 cuts / min 6'' ID, cut 20mm wall 5mm
or	appr.	10 cuts / min 16'' ID, cut 150mm wall 6mm
Set-Up time to another OD	appr.	2 min
Standard Circular Knife		HSS 140 x 40 x 2 mm
PLC		Siemens S7
Electrical Installation		400 Volts, 50 Hz 3 phase current with N und PE
Main Drives		
Mandrel		2.20 kW
Drive guide rollers		twice 0.55 kW
Knife Drive		1,10 kW
Servodrive for Cutting Unit		4.50 kW
Pneumatic Installation		120 NL/min at 6 bar
Standard Painting		
Machine	signal white texture finish	RAL9003
Machine dimensions (LxWxH)	appr.	3,7 x 1,8 x 2,2 m
Net weight	appr.	2.700 kg



Additional Options:

Advanced Safety Kit for UNI 75-2000 semiautomatic

In compliance with CE-conformity
the machine must be equipped with additional safety devices.

Special Design for small ID's 76 or 100

Alternatively the UNI 75 could be equipped with
special designed cutting mandrels.

Therefore it's possible to cut tubes with an ID
starting with 100mm or 76mm.

Attention: The maximum cutting load is reduced
by smaller cutting mandrels.

Venturi-Core-Manipulator for der UNI-series

For feeding large and heavy cores for the
UNI-series UNI 55 / UNI 75 / UNI 100
in semiautomatic design
lends itself to a Manipulator system.

The cores are delivered vertically standing on a pallet.
With the help of a gripping system the cores can be grabbed on the outer diameter.
The core can now be lifted off the pallet and simply swivel
from the vertical to the horizontal

The operator guides the core onto the cutting mandrel
releases the suction pad and pushes the core manually to the feed position
of the machine

Technical Data:

OD max	appr.	180 – 750 mm
Core Length	appr.	800 – 2.095 mm
Core Weight max.	appr.	100 kg
Essential Height	appr.	4.500 mm
Pneumatic Installation	appr.	40 NL/Cycle
Change Adapter For various ODs		inclusive

Licence: MULTI-CUT

Multiple-Lengths - Software

for cutting one tube up into 8 different lengths.
Length of the remaining part is indicated.